

## **Tales** From the **Hot Seat**

IT pros tell how to ace an interview. PAGE 24



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Some IT managers are keeping virtualization projects under wraps to avoid vendor and user pushback.

Microsoft says the days of five-year development cycles for SQL Server are history.

The Grill: Stuart Scott describes what It's like to be the CIO at Microsoft.

System specs that are just a blur of words do little more than con-fuse. Five diagrams are better.

Check out some odd IT job titles in use today, as well as predictions for 2020.

Ten legal risks of corporate blogging.

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Microsoft

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#### **EDITOR'S NOTE**

## Jou Tennant

## **Sweet Irony**



HINESE STUDENT sues Microsoft over WGA." The moment I read that headline, I knew what to expect. \* The story, posted on our Web site on Sept. 17, had so far elicited five reader comments.

I was certain of what I would find in at least one of them. It amazes me how per-

anything Chinese and

face of an alien mono-lith. That tendency was

A single Chin university stude

I scrolled down, and sure enough, there it was: "Does anyone NOT see the irony in this article?" Mike 90163 asked, "China, the world's largest manufacturer/home of pirated software, knockoff products, and poor manufacturing (poisoned doe food, lead paint in children's toys), griping about privacy and spyware?" The comment earned a rating of five thumbs up from other readers.

So, "China" was griping about privacy and spy ware. Really? Is that what the story was about?

disturbingly evident in No. Mike91163, it wasn't another reader comment The story was about a uniabout the same story. "Whatever happened to the good of China we versity student in Beijing who was griping about student, Lu Feng, is suing asked. "The one where Microsoft, claiming that its they had the right . . . to Windows Genuine Advanget run over by a tank." tage antipiracy software Perhaps the reader thought violated his privacy and

the security of his PC. Yet in this reader's mind and in the minds of many others, I suspect - a student somehow became of 1.3 billion people

Tiananmen Square massavasive that nonsensical leap is. It's been made right cre was humorous. Perhaps here at Computerworld. I others did, too, given that can think of at least two the comment earned a rating of three thumbs up. instances in which I've had to correct a story's brad He might not have line because the word Chi

thought so if he had shared na was used in reference to my experience the night entities located in China those tanks rumbled in. Many of us in the U.S., I was living in Macau. it seems have a tendency the former Portuguese enclave on the coast of to distance ourselves from China near Hone Kone, I China by depersonalizing saw tears streaming down morphing it into the cold the cheeks of my Chinese friends as they watched those horrifying images on TV. "China" wasn't some

faceless entity "China" was the tear-stained faces of real people But let's get back to the used to know?" this reader matter of privacy, and to the irony inherent in Lu's complaint. Mike 9163 in-

chaded this observation in his comment: "Mr. Lu ... lives in communist China Residence of the 'Poonle's Republic' HAVE no pri-Mike91163 is right. The

residents of China lack many of the rights that we take for granted. Concepts such as the right to protect



and the right to keep what you do with your computer private are hardly familiar ones in China. So how did it even occur to Lu to stand up for his right to privacy? Was he taught that idea at Beijing Public School No. 63? Did he see Chinese leaders on TV advocation privacy protections and guaranteeing that the information oo his computer

Not exactly. Lu learned of those concepts from countries like ours. His government controls news organizations, censors Web sites. But because have engaged China the

way they have, enough information has gotten through to open the minds of China's citizens to concepts that might otherwise clude them. That's why it's so crucial that we stop equating anyone or any thing from that country with the distant amoral mass we call "China." Otherwise we're senselessly needlessly undermining the sort of engagement on which the free flow of in-

formation depen-Does anyone not see the irony in a U.S. company being sued by a studeot in China over a privacy issue? No, we all see it. It's just that some of us see it as a

sweet irony. \*\*

Don Tonnant is editor in chief of Computerworld. Contact him at don transant@ computerworld.com.



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#### **■ LETTERS**

#### Wang's Legacy

I just wanted to write and thank Don Tennate for his cidorial supporting Staley Kumar I 'Dear Charles: Editor's Note, Aug. 20.1 worked for CA for almost 10 years and left about the time Snaipy was being groomed to succeed. Unfortunately, he was really being groomed to fail. Charles Wang is a good enterpeneur and knows how be build a world-class company. Unfortunately, he was really he approximately, he also shaif what could be a prime business-school case study of how power corrupts.

how power corrupts.

B Donnis A. Dargel, senior security specialist, PepsiCo, Chicago

I applaud Tennant for writing an editorial that held no punches. In this world where political correctness has reached a sickening level, it was refreshing to see someone simply speak his mind.

Bitark Dennifes, Maywood, N.J.,

mark@donadio.us

What Makes a Citizen I understand what the guy meant who said that a naturalization ceremony doesn't automatically make someone an American, as mentioned in Don Tennant's "Defying Expectations" Editor's Note of Aug. 27. I thoroughly disagree with him, but I understand him. He's pointing out that being American is a cultural thing. We have certain attitudes about freedom, privacy, the place of government in our lives and a whole spectrum of other tidhits that make up a cultural framework and marks us distinctly as those who grew up in the U.S. Yet Tennant's point is well taken. much of an American as that idios

who made the disclaimer in the first place — with as much right to make stupid, outlandish statements. B. John A.M. Darmell, software developer, Brookfield, Mo., johnamdurnell@gmail.com

johna

: 10 Steps ofter Balance 0-hour workmost in IT, but it s to that way.

Microsoft Downplays
User Concerns Over
Stealth Update
Wadows must allowly modify its
Update feature to ensure that users
are protected, the company says.

fahoo's New IT Approach: Lees Herolem, Fewer Burnouts

to ingree performance and reduce recurring problems, computer-world,com/servers increasing Adoption of ITIL. is Making Reelstance Futile There is strong resistance in the IT lefts many IT departments. But use of ITIL is spreading quickly as employers seek uniform and standardized processes. computerworkLoom/servers

radis Orr: Gottling own to Piffork 'OS in Apple make own a spreadout cost? Our reviewer alous the new office producrants for the Mac.

Bix Signs That It's Time to Move On Catherine Spanner Les describes anno signain that it may be time a loose your medium jab behind lesk for greater pasteres.

pinion: Keeping Encrypted atta Encrypted or encrypted data to stay sale in all its various forms, users must take one additional security processions.

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#### SCO's Finances May **Come Crashing Down**

N AUGUST, Darl Mc-Bride, The SCO Group Inc.'s president and Inc.'s pressuent and CEO, declared it "one of the more exciting times" ever for the software vendor. But by last week, the excitement had taken on a whole new dim

OPERATIRO SYSTEMS

SCO filed for Chapter II bankruptcy protection on Sept. 14, a month after a federal judge ruled that the copyrights to Unix are owned by Novell Inc. — not rities and Exchange Com-

by SCO, as it had claimed. The ruling dealt a serious blow to SCO's four-yearold copyright infringement case against IBM and put the company at risk of hav-ing to pay Novell more than \$30 million in licensing fees paid to it by Microsoft Corn

and Sun Microsystems Inc. last week. On Tuesday, SCO said in its third-quarter 10-Q statement to the U.S. Secu-

mission that there now "is substantial doubt about the company's ability to continue as a going concern."

In addition to the fallout from the court ruling, the 10-Q noted that SCO's rev

enue fell 37% year to year in the third quarter and that the company's SCOsource technology licensing business had no sales at all. And on Wednesday, SCO

said it had been notified by Nasdag that its stock will be delisted on Sept. 27 unless the company can convince an appeals panel that it has a viable business plan. Dan Kusnetzky, an ana-lyst at Kusnetzky Group in

Osprey, Fla., said that following the judge's ruling in favor of Novell, SCO is "facing a court battle where almost every single one of their [legal] pillars has been palled out from under them."

The lawsuits against IBM and Novell were aimed at forcing Linux vendors to sign licensing deals. But SCO's financial results have been on the decline since it

began the legal fight, said IDC analyst Al Gillen. New mobile applications software developed by SCO looks interesting, Gille

said. But the big question, he added, is whether "they can stay alive to market it." - Todd R. Wriss, with Robert McMillan of the IDG News Service

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# Critics Say Ameritrade Failed to Heed Warnings

DATA BREACH disclosed by TD Ameritran ... ing Corp. this th may have occurred as far back as a year ago

and possibly even earlier The Omaha-based brokerage on Sept. 14 revealed that an intrusion into one of its databases exposed the names, phone numbers and

e-mail addresses of more than 6.2 million customers. Lawyer Scott Kamber, who fised a spam-related class-action lawsuit against TD Ameritrade in May. contended that the com pany was likely aware of a

possible breach as early as last October, when customers began reporting bursts of stock-related spam. "It is really important to understand they were not [reporting the breach]

because they are a model corporate citizen." Kamber said. "They were caught with their pants down." A spokeswoman for

was filed and one year after they learned about [the TD Ameritrade last week insisted that the intrusion was discovered about three

weeks ago during an internal investigation into spam reports. "As soon as we discovered it, stopped it and gathered enough information to notify our clients.

we did so," she said. The spam complaints prompted the lawsuit filed

by New York-based Kamber & Associates LLC in federal court in San Francisco. The suit alleges that the breach's disclosure of customer e-mail addresses resulted

in the spam attacks.
The class-action suit was brought on hehalf of Ameritrade account hold-

ers in California as well as Internet access providers that sent the spam. A hear-ing on the lawsuit is set for next week.

\*We agree with TD Ameritrade that hacking can happen to any compa ny out there," Kamber said.

But what sets apart the responsible corporate citizen from the irresponsible one is how they deal with it," he added, "TD Ameritrade waited till five months after the lawspit

stock spaml to disclose a — Jaikamar Vijave

# Short Takes

#### VA Still Looking for Light at : **End of IT Security Tunnel**



#### SAP Sets Far-reaching Goals for ERP Service

SAP AG

Man There demand] solu-tion that does what I'm look-ang for. It's m-

-profit subsidiary of the reflion in start-up mor urs to the month

security leatures and fixes for more than 450 bugs. TWO YEARS AGO: Hewlett Packard Co. annour

WOPE BAD 15 ME - AS LETTER. SANKEUPTO PROTECTION.

Microsoft Loses Appeal of EU Suit

of First Instance, the European Union's second-highest Microsoft Corp.'s appeal of a European Commission antitrust ruling.

The court upheld the EC's decrean to fine Microsoft C497 milion (\$699 milion U.S.) and ordered the vend to pay the bulk of the com-

mission's legal expenses.

The court also lound that the EC acted correctly in or-dering Microsoft to unbundle Windows Media Player from the Windows operating system and in loccing Microsoft Germany with a two-year

Apart from a new settings for international language options, the European Phone is essentially the same as the U.S. model.

IIII Sows Service BROTLY NOTED SAP AG and Misses PLC have agreed to jointly develop

integrated systems for the global banking industry. The cations will incorporate SAP's NetWeaver middleware and the J2EE-based BankFusion platform

information to makers of server operating systems Microsoft will "study this decision carefully" and take ply with it, said Brad Smith the company's top lawyer.

> IDE NORS STEEL iPhone Plans Set For U.K., Germany

Apple Inc. will introduce the iPhone in England and Germany on Nov. 9. It has thered with cellular ser vice providers 02 (UK) Ltd.. based here, and T-Mobile Germany in Bonn to provide

service for the device.
The iPhone will cost \$269 (\$540 U.S.) in the U.K. with an 18-month contract and (399 (\$560 U.S.) in



COMPUTERWORLD SET VENUE AT LABOR.

Microsoft Corp. Salestona



#### SAP Sets Far-reaching Goals for ERP Service

NEW YORK

SAP AO last week set aggressive goals for its longanticipated hosted ERP service for small and midsize businesses goals that sou analysts called

At an event held here, SAP Chairman and CEO Henning Kagermann said he expects 10,000

customers to sign up for the SAP Business ByDesign service

by 2010. It won't be available until 2008, he said. How SAP will reach than goal is unclear, said Henry Morris, an analyst at Framingham, Mass.-based IDC. "They need to have some kind of focus on what type of (small business) they are targeting," he said, noting that

SAP is not aiming the ser vice at departments within large companies. "You wonder where all these fcustomers) are going to come from." "SAP put out some very aggressive statements that may be tough to reach," add-

ed Dan Sholler, an analyst at Gartner Inc. Potential rivals include Microsoft Corp., Salesforce.com Inc. and NetSuite Inc. The service will give users

access to SAP's manufacturing, purchasing, accounting, human resources, and sales and marketing applications. Sunflower Corp., a Longnt, Colo.-based maker of

lighting fixtures, said he had been searching unsuccessfully for a hosted service that offered integrated applic cations for small essinesses. Sunflower is

one of 20 U.S. and German companies that are test ing SAP Business ByDesign, and Mounck said the service is so far neeting his needs

"There isn't [another on-demand] what I'm looking for," he said. "It's intimidating for a small

сопправу."

James Necesiai of the IDG News Service Global



Dispatches

Phone Plans Set For U.K., German

OU.S.) in the U.K.





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# Virtual Machines Deployed on the Sly

IT execs duck user gripes and odd pricing schemes with covert jobs. By Johanna Ambrosio

HE PROMISE of virtualization technology has convinced some companies to require that most new applications be

most new applications be run immediately on virtual machines. Such a rush to virtual

servers is certainly under way at The Hartford Life and Accident Insurance Co., where "the standard is that everything new comes in on virtual servers," said Bruno Janssens, senior architect in the company's infrastruc-

ture services group.

A dozen of the Simsbury,
Conn.-based insurer's 5,000
servers are currently virtualized, as are some 500 Windows XP client machines,

However, IT managers at some companies can feel forced to hide plans from end users and vendors in order to overcome potential objections to virtualization, said IT professionalis and analysts attending Computerworld's Infrastructure Management World (IMW)

conference, held earlier this month in Scottsdale, Ariz I month in Scottsdale, Ariz I

nes or establish con-

dedicated servers.

At the same time, many
IT operations must deal
with vendors that either prohibit them from implementing their software on virtual
The InfoPro, a New York-

based consulting firm, about

s for 40% of respondents from 190 large companies said they aren't asking business units for permission to implement clud-server virtualization.

server virtualization.
"Server pros are saying,
'I guarantee [service-level

agreements], and the users don't need to know how I do it, " said Bob Gill, director of server research at The InfoPro.

Some IT professionals at the conference defended



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decisions to keep users out of the loop, while others said such dishonest dealings could prove tricky.

"It's not like we're hiding anything," said Wendy Saadi, a virtualization proj ect manager for the city gov-

nt of Mesa, Ariz. ending move" for a Wauke sha County gover "The application ana lysts know, and they'll raise employee, be said. "If you objections if they see any problems beforehand," she said. "My users don't care what servers we run their applications on, for the most

part, as lone as it all works. ver Saudi noted that an initial effort by a small Mesa IT team to implement virtualization without noti fring users - or the rest of the IT organization — did force a change in direction

"When we first started, (the small team) watched training videos about how to virtualize everything without asking anyone first Saadi said. "So they did that, and we were getting a reputation [among users and other Mess IT mans that' server group. We put the brakes on everything

At that point, IT manage ers created a process for menting virtual servers, and they prepared white papers and planning docu-

ents to keep all IT personnel involved, she said. "We gave lots of opportu-nities for IT folks to help set standards and procedures

and then started the effort again, Saadi explained. Now, she said, all of IT is notified of virtualization projects, and various IT managers represent the needs of specific users -

out necessarily notify ing them of the plans. Currently, the city has 32 virtual machines running the plan is to have 90 virtual systems by year's end.

case. If you have a disa recovery facility (that's run and it's not live, then that's fine - but if you turn it on, you have to pay."

Waukesha County's IT

Mike Biagioli, IT manager for Waukesha County. Vis., said that in his case, it's important that users be notified of any virtualiza-A "don't ask, don't tell" policy could be a "career

me software upgrades

David Hodge, manage of computer systems at Sys tech Inc., a Woodridge, III.-based vendor of billi and dispatch software for concrete mixers, is one IT

shop has had to postpone because of virtualization licensing concerns, according to Biagioli

the benefits of the technology, said IMW attendees. Whether or not licensing issues can be resolved, it's clear that users are already

buying bigger servers to help meet their virtualiza tion needs. "The sweet spot for hardware configurations has shifted from two-socket to two-socket dual-core or two-socket quad-core" proc-

essors, said Gill. Though the extra process ing power comes in mighty handy when consolidating many servers onto one, its price tag could slow virtualization plans at some IT

departments. Bob Logan, director of enterprise infrastructure services at SAIC Inc. a. research and develop

company in San Diego. noted that the typical server used for virtualization in his shop costs almost five times as much as an average

stand-alone server. "It's around \$28,000 vs. \$6,000," he said.

But the cost hasn't proven to be a problem for SAIC.
Virtualization has allowed the company to con

solidate its data center by tion, but I'm off in my corner replacing 300 physical servers with 20 servers hosting virtual machines, Logan raid The effort raned \$1.2 million in leasing costs ally do tell them, but just not over three years, he added. According to the InfoPro

Some IT managers said survey successful implementations like that should that when they run into an become far more common common tack is to test soft over the next few years. ware on a virtual machin For example, Gill said used for development, to get that about 28% of the re-

nts said they expect that half of all new servers. installed at their com this year will host virtual applications And about 50% said that, by 2000, at

least half of their new servers will likely host virtual software.

SAIC replaced
300 physical servers with 20 servers
hosting virtual
machines. The effort
saved \$1.2 million
in leasing costs leasing costs or three years. BOB LOGAM, DIRECTOR OF ENTERPRISE INFRASTRUCTURE

staffer who doesn't tell his vendors and end users about

virtualization projects right

away, However, his employ

er is a software vendor that

does that doesn't allow our

doing it." he acknowledged.

"It makes my job easier to

just put it out there and th

tell (users) later. I eventu-

during the initial period."

uncooperative vendor, a

a sense of how much suc

port the application might

that effort, the project's leader might reach out to

the virtualization software

lier for help in cor

While staffers undertake

tomers to do virtualiza-

izing its software. We're one of those wen-

prohibits users from virtual-

do that and people find out. they won't trust you on anything else."

**VENDOR DILEMMAS** Software vendors are also

erecting barriers to efforts to set up virtual computing systems, according to IMW attendees.

Some vendors won't su port their software at all it it's run on virtual machines they said Those that do

support virtualized deployments have widely varied pricing schemes. "You have to go to each vendor and ask," said leff

Dill, senior manager of technical architecture services at aircraft parts supplier Aviall Services Inc. in Dallas. With many vendors, Bi-

agioli noted, "it's case by

## Microsoft Starts **Clock Ticking on SOL Server 2008**

The vendor plans to finalize the database upgrade in Q2 of '08 — a timeline that would cut its development cycle in half. By Eric Lai ESS THAN two when be says be will. Microof the CTP releases in son

years after Microsoft plans to hold a marketsoft Corp. very belatedly shipped SQL Server 2005, ms oddly early to hear the software vendor talk about launching the next n of the datal But it looks as if Microsoft base - enough to make it

will keep its promise to get back onto a two-to-threeyear release cycle, after taking five years to develop SQL Server 2005.

many of the new features that will be in SQL Server 2008 at a conference held in Denver last week by the

SQL Server user group.

And Ted Kummert, corporate vice president of Micro-soft's data and storage platform division said and this month that the upgrade will be released to manu

turing in the second or of 2008 - about two and a half years after SQL Server 2005 became available. We understand that five years between major releases is too long,"

he said Kummert doesn't have much choice about delivering SQL Server 2008

business intelligence appli tions. David Smith, CIO of ing blowout in February for the new database, as well as the Cordova, Tenn.-based for Windows Server 2008 company, said be also plans to deploy SQL Server 2008 and Visual Studio 2008. But Kummert claimed on mi before its official release. that Microsoft is injecting a significant amount of new "It's exactly what I need." functionality into the data-Smith said. For example,

be pointed to new featur

meted data manag

for SQL Server 2008.

a worthy upgrade, even for users who have recently mi grated to SQL Server 2005. Microsoft has already med four Come Technical Preview (CTP) releases of SQL Server 2008, including one late last

month that can be run in up the entire database. Smith noted that as far confunction with its server virtualization software. ServiceU Corp., which ment of only a single feat provides event and boxoffice management ser-

ing one

Falls, S.D., is testing a new, more transparent data encryption capability on a 2TB SQL Server 2008, according to Ron Van Zanten, the cred card issuer's directing officer for business intelligence.

met their timeline," be said

First Premier Bank in Sioux

So far, "the performan is OK," Van Zanten said, ling that the new encryp tion tool is much simpler to

implement than the one in SOL Server 2005. He also said that Microsoft has made its integrated data analysis reporting software much more "dynamic." Van Zanten plans to start

upgrading First Premier's 100 or so SQL Server in-stances, which store about 10TB of data, soon after the new version's official launch. We won't wait until Service Pack L" be said. Gartner Inc. analyst Don

ald Feinberg said he thinks that SOL Server 2008 will such as tools for setting auput the Microsoft product on an equal technical foot-ing with IRM's DR2 and will policies and logging all actions inside the database. He match Oracle databases "in terms of base functionality." also said be's impressed by the upgrade's ability to con press data in three ways: by But the CTP releases row, by page or by backing aren't perfect. Van Zanten said some promised policy management features have

as be knows, Microsoft has fallen behind on developyet to appear. And Smith wants Microsoft to make SOL Server 2006's fail-over features more sophisticated and to add the ability to su-\*Otherwise. tomatically compress audit they've and event logs. Feinberg isn't call

wholesale upgrades by mies that use SOL Server 2005. "If you really red one of the new features. I'd recom becoming an early adopter," be said. on SQL Server 2005,

## repelling giant spiders.

repelling spyware easier.

1. What's making them silling in the descent building in the second building in the second building in the second beautiful to the second beautiful to the second building in the second building is second building in the second building in the second building is second building in the second building in the second building is second building in the second building in the second building is second building in the second building in the second building is second building in the se

2. Use proven methods

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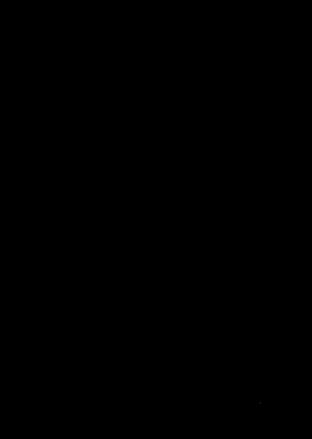
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### repelling giant spiders. easy.

repelling spyware. easier.



Z. Use proven methods. Spillers are bet handed the old-facilizated way by crashing, smooth ling, etc. Fraskinkly hope Spiders are no different. Grad a relative nemphose or wast up is handed of tables paper, and have as it. United

3. Use your superior intellect. Spiders are craftly hunters and one of natural most efficient predators. Remember though, you are a human, and while you may lack.









# On the Mark

based Coverity Inc., says an add-on to Coverity Prevent SQS includes a mathematical technique known as satisfiability. The first module, the SAT False Path Pruning Solver, eliminates places in C. C++ and Java code where defects are infeasible, cutting the false positive rate to as low as 5%.

Chelf hopes to improve on that num ber as more modules are released next year targeting prob lems such as buffer, string and integer overflows. Pricing for Prevent SQS is project-dependent.



#### Use Keystrokes to Improve Security

Next week, BioPassword Inc. in Issaguah, Wash, will ship the 4.0 Enterprise Edition of its eponymous log-in software, whose "keystroke dynamics" feature provides biometric assurance that a user is who he says he is. Or, more precisely, who he types he is. CEO Mark Unson says the upgrade improves the accuracy of ideotifying users through their typing techniques to 99.2%, as

The Tolly Group Inc. in Boca Raton Fla He claims that's "conivalent as a means of iden-

tification. The release also includes support for the Citrix Access Gateway VPN. BioPassword currently integrates with Active Directory to enticate Windows clients. In QL Upson says, the software will add support for Macintosh and Linux users as well as standard LDAP directories. Because the software knows how users type their usernames and passwords, it can report on who is sharing passwords with colleagues If a user has a hand iojury, is hopped up on caffeine or is experiencing something else that affects his typical typing pattern, BioPassword can offer challenge questions for log-in. A perpetual license for the Enterprise Edition starts at \$50 per user.



#### **Build Yourself a Botwall**

HIEF SECURITY OFFICERS have a panoply of tools to protect their companies' IT and data assets. There's the hoary firewall, the intrusion-detection system and its intrusion protection system cousin, and antivirus and antispyware software. Now there's something new and increasingly important to add to IT's defensive perimeter: the botwall, which targets

those PC zombies controlled by hackers, Shar Aziz, CEO of FireEve Inc. in Menlo Park, Calif., argues that companies need to "wall off bots" with appliances that sit inside the data cent and work with systems deployed at

Internet service providers and thirdparty technology partners. The result is a "bot wall network\* designed to identify and shut down bots, Accord-

victim machine (VVM), which is software that pretends to succum to a hacker's ruse. He says the VVM captures on a "hair trigger" any su cious traffic that gets through the firewall and analyzes it for malware. The

ing to Aziz,

each botwall

analysis is done by all the botwalls on your network, in combination with those off-network. Aziz claims that the botwalls can quickly determine whether traffic is malevolent and then let it through or shut down any data emanating from the source do main, or take other security actions FireEye has two botwall models, one that can handle network traffic up

to 200Mbit/sec., and the other up to IGbit/sec. Next month, it will release a model that can process data moving at between 5Gbit/sec. and 8Gbit/sec. Pricing starts at \$10,000.

**Cut False Positives** Applicatioo developers are under pressure to get code into production quickly. So the last thing they want is an analysis tool that reports security problems io source cod that don't even exist. Beo Chelf, chief technology officer at San Francisco

Fujitsu recommends Windows Vista` Business.



The Fursiou LieBook® T4200 Tables PC with Intel® Centern® Duo Mobile Technology reflects the Fursion commitment to delivering the most residue products. It is manufactured in-House so we can maintain the ingrised quality standards. The Fursiou LieBook TeC00 Tables PC and standards the industries for desiration LieDook Tecnologies and patient, 11 VEM desigate, with wide wearing arrigies, so its impressive any very you look at it. And whitely you use its legislated or powerful infraing appatitions and periodic managency, you get the best of both vivides 10 on buildingstandardingstandards reflected to the control of the set of both vivides 10 on buildingstandardingstandardstandards.

SUPERIOR CONNECTIVITY

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#### ■ THE GRILL

## Stuart Scott

20 COMPUTERWORLD SEPTEMBER 24, 2007

Microsoft's CIO talks about playing a revolutionary role, being his company's best customer and purging alien technology.

#### Dossier Name: Stuart Scott

Title: CIO

Outside of work . . . "My famity is my higgest priority. My wife, Melanie, and I have seve children. I also enjoy playing

charch and youth proops."

Read any good books lately?
"I keep up on the latest business titles by reading executive summer can."

First PC? "The original Compae "luggable" with a 7-is. CRT screen." (www.vintage-computer.com

Smart phone? HTC Dash with Windows Mobile 6

Why would a traccessful CIO lover one company to become co-CIO of another with only one-third the revenue and employeest Anwer: The new company is Microsoft. Struart Sector towards there is seen to the structure of the structur

Her in managing IT at Microsoft winds are different term meaning IT of MCT CRI given a bet through acquiring and integrating different businesses. IT had to be at the forefront of that, to be able to connect people and to make the combinations of businesses be successfully examine people to work together and everage the talent that crossed from the acquiring company to the host company. That's very similar to what we're doling at Microsoft.

As an example, here are you integrating the recently acquired advertising firm a@uantive? Does the company use a let of Adobe or open-seurce technology? Continued on page 22

#### SHARP

Is your MFP a portal for identity theft?



The MX-Series with Sharp's Data Security Kit.















Certainty, there are people at Microsoft that think they can do my job, but they really don't want to do my job.

Continued from page 20
Will that be damped in favor of liferesett
usehnology? We're going to look at what
they have and continue to leverage the
technology that's in place. But yeah,
we're certainly going to move them to
Microsoft technology. We run our cn-

tire business today on Microsoft technology on the infrastructure side, and we're going to continue to do that.

is there an actual prohibition on non-Microsoft technology, or do you allow

mospitions at the departmental level or the souther hands—and applications? If we have a problem that we need to get technology for, we look at the marketplace. If Microsoft has the best technology, then we certainly choose information have kno our product group and we work with them to identify our needs as a customer. In some cases, we decide it is just not a large enough marlect for Microsoft, so I'll go out and buy third-party products.

is there any third party probuses that I will be always and the first wild yould at Microsoft? Nothing's really surprising. We use \$17 for our F.RP, and that's been in place for a long time. We're actually moving some of that functionality ioto our IDynamics] product. We have a large installed base of Sichel CRM that we're rapidly replacing with our own Dynamics CRM products.

In dealing with empireous who think they have better than the If department a challenge at Microsoft P. Microsoft is a challenging culture. Everyone scens to have input into everyone clock job. It keeps you sharp. Certainly, there are people at Microsoft that thiok they can do my job, but they really don't wast to do my job. I think that just goes with the territory of any CIO.

What do you consider your make accomplications in the law years you've been as the jab' We continue to up our gains to be jab' We continue to up our gains to be the continue to up our gains to the continue to up our gains with the product groups, to continue to being an enterprise customer perspective. That's a two part of the job, product groups, I shall with customers and a third actually running the IT organization. We have dramatically improved our encession, in terms and the continue to the continue to the accountability. Our pending has renained flat (while) we've more than doubtled the benefits in terms of re-

enue and growth, as well as contributions to margin and cost-effectiveness.

You've said that you think IT should sorve an a value-added partner for business. That's the approach I've always tried to take. So when I came in, we shifted 30% of our investment to highercrowth, more-stratecic business areas.

Bill. doubt year philosophy of partners by rother has difficults, it seems like lyer for his and ficilities, it seems like lyer or his as GO is more somewhated, and the law of the like o

You hossed a summle for about 500 CDM convent months as, What did you hear form them? That more and more, CDO. The majority of the discussion was not about technology or the lasest version of a product, it was about how you could make exhancing or through the could make exhancing or through the could make exhancing or through the could make the contrology of the product to market for the country and also people (orgether, how to speed a product to market faster than your competitor.

1 believe the CD role is going

1 believe the CIO role is going through a dramatic revolution. It is no longer about parting in monolithic ERP systems, it is about sometime groups. When I look at the programs where we're getting the highest payback and benefins, it is when we bring in collaboration took like presence swareness or an extension to the presence swareness or an extension of the presence was received to the presence of the presence was received to the presence of the presence was received to the presence of t

ing sure that their equipment works well and is economical. It's not about command and control anymore. At the same time, you don't let go completely. Because if e-mail is not up 24/7, then I don't get invited to the product stratcyy meetings.

— Interview by Eric Lai

## Michael IIII

## Five Diagrams Beat A Victorian Novel

ONSIDER TWO METHODS of collecting and presenting computer system specifications to users. One is far more likely to result in disastrous development projects plagued by miscommunica-

development projects plagued by miscommunica tion and users who are unhappy with the systems that are delivered to them.

This method uses Unified Modeling Language (UML), a variation on what used to be called Victorian novel\* text specifications. UML specs mire readers in a swamp of boring words. They rely on use cases that seem very rigorous yet manage to reduce everything from trivial details to important processing logic - into a monotonous blur of text that few people can read for more than a min-

ste or two.

The only diversions
from this text are some
shotract charts, but they
too are filled with words.
UML documents seem to
be purposely designed to
confuse and disengage the
typical business user. The
method's widespread use
is hard to explain, since it
can probably be hlamed
for many failed systemdevelopment projects.

for many failed systemdevelopment projects. Instead, I use a method based on the old saying that a picture is worth a thousand words. I use schematics and diagrams that give both business users and developers an easy way to understand the system under development. I have seen again and again that just five diagrams can capture all necessary system design specifications. More important, these five diagrams enable effective communication between business and technical

communication between business and technical people so the system that gets delivered meets user expectations. Let me describe each diagram. The first is a process flow diagram. Sets of leveled data-flow diagrams

they are easy for business people to understand. At times, flow charts and swim lane diagrams also have their place. People

E Victorian nove text specification for system development simply mire readers in a swamp of boring can quickly scan them and check for accuracy.

Next, I capture the data identified in the process flow diagrams and plug it into a logical data model.

Business users see the structure of their data and can visually scan it to check for accuracy.

I then create a screen map and screen layouts. This storybeard of screens shows users how they will interact with the system as they handle

they will interact with the system as they handle the data in the data model and perform the work specified in the process flows. This is always the most interesting diagram to users, who can clearly see how the system is being designed to work. It's where they provide most of their input.

A system architecture diagram documents the technical infrastructure that will support and drive the system. I use pictures of PCs, servers, telecom networks and internet clouds. This diagram defines system hardware,

6

operating systems, communications networks and data storage devices. The last diagram is the software object model, showing both custom

software object model, showing both custom code and packaged software. It defines the processing logic for the custom code and the data interfaces between custom software objects and packaged software.

. I add footnotes as needed to all these disgrams, explaining things that may not be clear from just looking at the pictures. Beneath the individual screen layouts, I add bullet-pointed notes to describe the processing logic that takes place for each screen.

to describe the processing logic that takes place for each screen. These five diagrams represent a clear and comprehensive set of

comprehensive set of specifications. Because the diagrams are easy to understand, your business users can jobs your technical staff in effectively designing and developing any new system. The result is a musch higher success rate on development projects than is possible using that rambling mass of words and abstractions called UML.

Ellied 1081... Billichael H. Happen is n principal at the Center for Systems Honovation and a specker. A member of the 2006 Computerwoold Premier DOI FI Leader class, his newest book is The Greatest Innovation Since the Assembly Line (Mephan-Kiffer Press, 2007). He can be reached a www.Michael Hugos.com.



# Tales From

IT pros who have survived rough job interviews share their stories. By Mary K. Pratt

TORAGE, SECURITY, SERVERS. For IT pros, prepping for a job interview by mentally reviewing your areas of expertise is a no-brainer. Then the interviewer asks you to tell a joke, and it all goes up in smoke. Or maybe not. To be sure, an interview puts you in the hot seat. But that doesn't mean you can't take control when things start going off course.

Here's a sampling of how IT professionals reacted to unexpected questions, asked bold questions of their own or managed to turn around interviews that seemed to be going badly. Most ended up with the jobs they sought, and everybody came away with a good story.



What was the best or worst — interview question you were ever asked?





\_INFRASTRUCTURE LOG

DNY 79: This is out of control! Our IT environment is rigid and inflictible. Our business needs are changing, but our environment isn't built to change with them. We can't adapt. Oh, no...I was afraid of this. Ne're so rigid we're stuck in time.

Infrastructurus prehistoricus. I've read about this.

DAY 80: The charge back control with IBM SSA polaritors. Now we can oligin business goals with our IT. We have the handware so reliance and services we need to respond to change. Strategy, planning and implementation are in ture with our specific business needs. Now we can deploy and update business processes feature and one efficiently.

\_Goodbye, rigid post. Hello, Flexible future.



Take the SOA business value assessment at: IBM.COM/TAKEBACKCONTROL/SOA

#### COVER STORY

Continued from page 25 like a bid to get technical expertise for free. He still remembers a query of that type - the worst interview question he was ever asked - from 1978.

Stasa, now CIO for the Pittsburgh Technology Council, a nonprofit business organization, was interviewing for a job doing thermal modeling and ming for a telephone com ny. The firm was having trouble with icicles forming on the back of its circuit boards, so the interviewer asked Stasa how he would solve the problem

"That's the worst kind of questi Stasa says. "It's extremely unfair. They had people spending months trying to find the solution." Besides, he adds. giving an answer would be tantamount to providing free consulting

Stasa turned the tables, asking questions about the circuit-board situation and trying to show how he would investigate the problem and find a solution. In the end, that division didn't offer him a job, though the other four company divisions that he had interviewed with did extend offers.



What's the best question vou've ever asked during an interview, and how did it land you the job?

**VICTOR CHEM** realized that he was doing poorly in interviews because he spent too much time talking about skills that weren't pertinent to the open position. And he was hearing from recruiters and interviewers that his skills were all over the place. So Chen decided to change his ap-

proach. He started asking interviewers, "Who in your opinion is the per fect person to fill this role?" Then be would use the interviewer's rece to tailor bis own description of how his skills, expertise and experience could meet the company's needs "I just kind of said, 'Hey, let me try

this.' And it worked, so I used it again. And I realized after I started using that question that my success rate went up. says Chen.

He first used the question while in-

# Nobody's Perfect

terviewing for a belp desk job in 2000. and it got him the job. The interviewer told bim that "it was the quickest interview he had had, but it was the most eventful because I was able to focus it." says Chen, who is now a senior IT consultant at Insource Services Inc., a Wellesley, Mass,-based provider of financial human resources and IT

services Carolyn Loighton did her homework before interviewing for a consulting job at Hewlett-Packard Co. She researched the company, read through past press releases and learned about the executives and their backgrounds She also studied HP's products.

Then she put the information into context during her interview with HP Laboratories, the company's central research lab. Leighton asked about a pending patent and then used the ques-tion as a bridge to talk about what she could do for HP.

"I was able to ask a ques patent they had applied for a year earlier, which communicated the fact that I had been very thorough in learning CHILDREM'S HOSPITAL AND HEALTH SYSTEM INC about their company and their product

before I walked in the door," Leighton says. "I believe the primary differentia-tor between me and the other candidates was that I focused on how I could contribute to the person interviewing me and to the company, as opposed to focusing on what I wanted and what I needed."

Leighton, who was offered the con sulting position and worked with HP for four years, is now chairwoman and acting advisory board chairwoman of Women in Technology International, a trade association in Sherman Oaks, Calif



Adam Moskowitz began his first in-terview at Upromise Inc. by asking the interviewer what he most wanted to know about the company, a Newton. Mass,-based credit-card lovalty pro gram processor. "My very first question was, 'So how does the company make its money? Specifically, who pays you - the members or the vendors, and how?" he says.

It wasn't an IT-related question, but to Moskowitz, it was important. "I've been in the computing business for more than 25 years now and have seen far too many companies with unsus-tainable business models — companies

I have no desire to he part of for exactly that reason," be says The effect on the interviewer

was dramatic. "He loved it." Moskowitz recalls "In fact, I think his answer started with something like. Talready like the way you think. We spent nearly the entire time talking about businesslevel stuff: high-availability requirements, ways to make the operation more efficient, peri

issues, and so on

Chelmsford, Mass.

Not only did Moskowitz get the job a position as senior systems adm istrator - he and the manager ended up working closely together on a big project. "I'd work for him again in a aute, and I'm pretty sure he'd hire me again if he ever goes somewhere else. He's also one of my references." savs Moskowitz, who is now a principal consultant at Menlo Computing in



Pittsburgh Technology Council, says that IT professionals generally dread being asked questions on subjects beyond their area of expertise. "The ques-tions can be so niche, highlighting stuff that you can't answer. The interviewer what you're talking about," he says. Woveheck says he keenly remem

hers having that experience while in-

terviewing for a joh as an IT manager at a small financial services company. The interviewer's questions reveal Woycheck's unfamiliarity with the ancial services industry and statistical modeling, two areas of experience the company wanted in an ideal

Woycheck thought the interview was a lost cause, but he turned it around by talking about his previ ous experience, highlighting that he learned new technologies and diff industries' requirements quickly. To prove the point, Woycheck says, he talked about his systematic approach to learning new material.

"I showed them I could learn the business and the sector and the statistical aspects of the job. It helped show that even though I didn't know everything about their topics, I was still a

valuable candidate," he adds The approach worked - Wovcheck

anded the job.

Michael Josep is now CIO at Children's Hospital and Health System Inc. in Milwaukee. But when he was inter viewing for the job of chairman of the division of medical informatics at The Cleveland Clinic Foundation, a notprofit multispecialty academic medical ter, he found himself in an intimidating situation: He was in a roo

with 25 physicians and Ph.D.s who were given free rein to ask him about his qualifications for several hours. He soon noticed that many of the doctors didn't share his sense of humor. "You had to tell them when you made a joke," be says. And others

didn't like his responses to their or tions. "You could tell by their body lansugge and their looks," he recalls. In other words, the interview wasn't spins well.

Jones says that rather than panick ing, he decided to "relax, give the best answers and advice I could, and let the chips fall where they may:

That perspective apparently helped him deliver strong answers and convey his expertise, because he got the ioh. He later learned from some of the rviewers that they had appreciated his frankness and his calm den when things weren't going well. Trucks is blunt in his ass

ment of an interview be had during



WOMEN IN TECHNOLOGY INTERNATIONAL his most recent job search. "I thought I had blown it completely," he says. Trucks was talking with a hiring manager who was conducting initial telephone interviews to make sure that

candidates had the tech

ence required for the job "The beginning of the in focused very tightly on an area where I have some experience but am far from being an expert - high-capacity storage systems," he says. As a result, Trucks says, he was forced to punt on the first several questions, saying he would have to "investigate or look up

nical experi-

But instead of giving up, Trucks tried to move the conversation to areas in which he had more expertise, such as security architecture. "Eventually, the interviewer asked me a question directly related to security, so I could answer with authority," he says, and after that, the interview went well. Although the company expressed interest in hiring him. Trucks ultimat took another offer instead. He is now a systems engineer at Telephone and Data Systems Inc. in Chicago. Pratt is a Computerworld contributing writer in Waltham, Mass. Contact her at marykpratt@verizon.net.



IBM



#### \_INFRASTRUCTURE LOG

\_DMT 69: All we need is one specific piece of info. Gil almost had it, but his hand cramped. How are we supposed to find trusted business info when these massive volume of disparate, conflicting information loop pouring in?

#### \_Gil just grobbed a stuffed pando.

DAY 71: The orsaer: IBM solutions for leveraging information. Now see can cleanse info and standardize source data fields for consistency and occurry. I on or most a single, comprehensive and occurred record of info across our source system. Finally, I can provide a unified, trusted view or uniformation so everyone can sake better decisions.

\_Our view of our data is now scalable. Just in time — I think we run out of our ters.

Download the Innovation and Competitive Advantage white paper: IBM.COM/TAKEBACKCONTROL/ACCURATE

## The legal risks of corporate blogging. By Lawrence Savell

A CORPORATE BLOG can certainly help your company "set he word out in an effective and efficient manner. But that valuable online presence may carry with it substantial legal risks.

Let his define what we mean by a corporate blog. It's a blog that's written, published upon the composition of the complex we conclude that one puope of their employment or by an outside contractor/
vendo, or some combination thereof.

Increasing your sensitivity to potential claims can help reduce your company's liability exposure. Here are some guidelines.

may defame a person, business or product. Generally, a defamatory statement is a false and dispar-

product. Generally, a defamatory statement is a false and disparaging assertion about another that cause injury to reputation. A few things to keep in mind.

So the product of the statement of

idea to reduce risks by incorporating
ner less-than-absolute words like "may"
or "might" or terms like "alleged" or
"reported."

"reported."

If you determine that a defamatory statement was posted on your blog, a prompt removal and correction or clarification should help reduce poten-

Don't use another purty's copyrighted maintail without permission. Re sure you incorporate only material that you own or that you have permission or the right to use. There is one exception:
"Fair use" allows other parties besides the copyright owner to use copyright owner to use copyright owner to make the purty of the purty of

The inertial beautiful probability of the probabili



# INNOVATION

LURKING IN THE EMPTINESS THAT MAKES UP 70% OF YOUR SERVER STACKS.

### Discover SUSE. Linux Enterprise Server 10 from Novell.. Infrastructure for innovation."

It is the infrastructure you need to harness the mnovation you're losing managing soncer sprawf With buth-invirualization, advanced clustering capabilities and more enterprise applications, at loty soccue and fully susported, SUSE Linux Enterprise Service in thinatic consolidation generies say and indirectable. So you can fill flever anyone with more performance. Just one more piece of the Open Enterprise at the infrastructure is taken to movelet.

innovate today at www.novell.com/linux

Novell.
This is Your Open Enterprise."

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#### III IT MENTOR

Continued from page 32

Be careful when us marks of others. Make surthat you have permission to use any other individual's or company's brand names or trademarks that you display. Trademark issues can also inchale the registration of domain names that allegedly infringe on existing trade-

marks and the use of trademarks of others in metatags. An example of the latter: Comrony A inserts the trademarked name of Company B in Company A's metataes. This is a no-no because it might confuse people who are looking for Company B's blog but are directed by a search engine to Company A's blog.

#### Watch out for potential invasions of privacy. Statements that invade the privacy of others can provide the ba-

sis for a logal claim. With increasing federal and state legislation revarding Internet privacy, many bloggers post (and many readers expect to see) privacy statements promising to protect the

confidentiality of personal information that may be provided or collected, such as that transmitted in the course of bloc registration log-in by those seeking to post comments. Blog hosts must com ply with their own established policies

### Keep applicable advertising laws and regulations in mind. Certain blogs may be viewed

in whole or part as advertisements. An example the blog of a business that pointedly extols the quality of its stati and services to potential customers and clients. If so, bloggers must comply with applicable advertising, consumer protection, deceptive practice and unfair-competition laws and regulations.

#### ee blooging. Companies are generally held responsible for actions their employees perform within the scope of

their employment. Employers should remind employee bioppers that corporate policies may

apply to their blog postings. These may job, the employer automatically owns all include policies regarding proprietary rights, and thus no grant is necessary.)



ness and its clients, as well as applicable governmental requirements such as congrition base regarding disclosures

#### Take care when drafting con tracts with outside providers of corporate blog content. If you use an outside person or en-

tity to create content for your blog, be sure your agreement with that provider gives you the rights you need. It should be structured as a grant of "all rights" to your company, or as a "work made for hire," with an express agreement that the copyright belongs to the party commis sioning the work. (For content created by an employee within the scope of his nts by third parties.

These can present significant risks that can be avoided by simply not allowing them. Your business model may encourage third-party con

tributions tu your corporate blog, however. In that case, notify posters that they are representing that they have the right to post the content in exchange for your giving them the opportunity to post. This may reduce your liability somewhat, but if a pos plagiarizes material, you may still be ound responsible if the true owner sucs. The Digital Millennium Copy right Act may provide some insulation if applicable and if you remove infringing content once alerted. The Communications Decency Act of 1996 may provide some protection regarding defamatory statements posted by a third ports

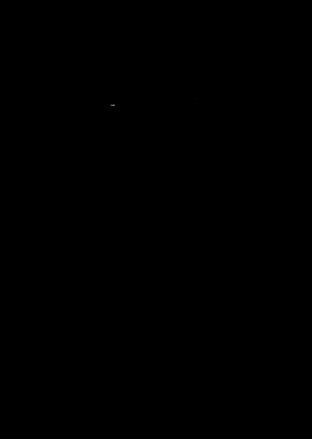
Be careful about providing ex mal links. Accompany them

with a notice disclaiming responsibility for and denying any endorsement of products, services or information con

tained on outside sites. Retain legal co As you can see, your potential liability largely depends on the details of your circum stances. To get the full

picture, consider preventive leval review or monitoring by in-house or external counsel with expertise in these areas. Ask your lawyer to educate and undate involved personnel on pertinent legal issues, and consult counsel on questions about

currentlated blog content Sensitizing yourself and your com eany to the major leval issues and taking stone to deal with them in advance can help reduce the risks of legal liability for corporate Nogs. An ounce of prevention can save you a lot of headaches and expense down the road. Savell is a litigator at the New York office of Chadbourne & Parke LLI who deals regularly with technology and the law. Contact him at Isavelia chadhourne com



ntinued from page 32 marks of others. Make sure that you have permission to use any other individual's or company's brand names or trademarks that you display. Trademark issues can also inchade the registration of domain names that allegedly infringe on existing tradeirks and the use of trademarks of others in metatags. An example of the latter: Company A inserts the trademarked name of Company B in Company As metatags. This is a no-no because it

might confuse people who are looking for Company B's blog but are directed

by a search engine to Company A's blog. ne of privacy. Statements that invade the privacy of others can provide the basis for a legal claim. With increasing federal and state legislation regarding Internet privacy, many blomers post (and many readers expect to see) privacy nts promising to protect the confidentiality of personal information that may be provided or collected, such as that transmitted in the course of blog registration/log-in by those seeking to post comments. Blog hosts must com-nly with their own established policies.

Koop applicable advertising laws and regulations in mind. Certain blogs may be viewed in whole or part as advertisements. An example: the hlog of a business that pointedly extols the quality of its staff and services to potential custo and clients. If so, bloggers must comply with applicable advertising, consu

protection, deceptive practice and unfair-competition laws and regulations. Recognize the risks of employ so blogging. Companies are emerally held responsible

for actions their employees perform within the scope of their employment. Employ-ers should remind employee bioggers that corporate policies may apply to their blog postings. These may include policies regarding proprietary

And for Good Measure of allowing poets o

These can present signifi risks that can be avoided by simply not allowing them. Your business model may encourage third-party con tributions to your corporate hlog, how ever. In that case, ootify posters that

enting that they have they are repres the right to post the content in exchange for your giving them the op-portunity to post. This may reduce your liability somewhat, but if a post plagiarizes material, you may still he found responsible if the true owner sues. The Digital Millennium Copyright Act may provide some insula tion if applicable and if you remove infringing content once alerted. The Communications Decency Act of 1996 may provide some protection regard-ing defamatory statements posted by a third party.

ternal links. Accompany them with a notice disclaiming responsibility for and denying any endorsement of products, services or information contained on outside sites.

As you can see, your otial liability largely depends on the stances. To get the full picture, consider pre-ventive legal review or monitoring by in-house or external counsel with expertise in these areas. Ask your lawyer to educate and update involved personnel on pertinent legal issues, and consult counsel on questions about

contemplated blog content. Sensitizing yourself and your com pany to the major legal issues and taking steps to deal with them in advan can belp reduce the risks of legal lishility for corporate blogs. An ounce of prevention can save you a lot of headaches and expense down the road. Savell is a litigator at the New York office of Chadbourne & Parke LLP who deals regularly with technology and the law. Contact him at Isas

or confidential information of the business and its clients, as well as applicable governmental requirements such as securities laws regarding disclosures.

Take care when drafting con-tracts with outside providers of corporate blog content. If you use no outside person or en-

tity to create content for your blog, be sure your agreement with that provider gives you the rights you need. It should be structured as a grant of "all rights" to your with an express agreement that the copyright belongs to the party commis-sioning the work. (For content created hy an employee within the scope of his job, the employer automatically owns all rights, and thus no grant is necessary.) chadbourne.com.



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Partners HealthCare is teaching its IT staff to think creatively. By Mary Brandel Fernandez is a senior

Donna Fernandez. Since participating in a 16-week em-Partners HealthCare System Inc., she has been trying to eliminate that type of negative response from her vocabulary. "I no longer take 'no' for an answer without question-

plovee innovation program at ing why instead it couldn't be 'yes,' " she says. the previous 10 years had

OU WON'T HEAR THE WORDS !

"WE CAN'T DO THAT" from

project specialist at Partners Continuing Care, the nonacute care services division of Boston-based Partners. The program she participated in was launched in January 2006. Its goal is to spark innovative thinking in the 1,200-member Partners IT organization. IT leaders feared that fast growth over

sapped the group of some of its entrepreneurial, can-do spirit — an attitude it need ed in order to face health care's increasingly com challenges.

"The vision is to impro the staff's ability to think broadly and innovatively when dealing with chal-lenges in their day-to-day jobs," says Joanne Tremb who manages the innova-

tico program io additico to her role as associate director of application development at Partners. "The objective was to expose them to inno vation in a hands-on way."

Selected participants are divided into groups, each of which tackles a comp husiness challenge and, at the program's end, presents an approach to meeting the challenge. On top of their regular jobs, the employees are expected to conduct research independently and, with their teams, attend discussions led by guest speakers and embark on "experience trips" to stimulate

wative thinking. Dick Oleen, CEO of Oleen Health Care Information Management Inc. in Silver Spring, Md., says he thinks the program is an excellent idea for many reasons. He adds, however, that it may not be practical for every IT

department. The focus of the IT department is foften) oo a particular initiative, and not all of them have the resources to support multiple learning experiences." Oleen says.

LIVING THE LESSONS Unlike IT staffers who often

view this type of program as "flavor of the month" management or, worse, a big waste of time, Partners' program graduates and their supervisors have a different perspective. They attest that participants oow venture outside their form comfort zones, creatively resolve project challenges, nd their day-to-day jobs in the higger context of Partners' mission and culture, and confidently reach out to peers and even se managers in other divisions for advice and input.

For several particip who were already on the

# Brain

# Session I

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n for a region sical data so: amining IT oppo

ring the rami

# Session II

dorming IT into

path for a promotion, the program bolstered their

ability to move forward. according to direct supervisors. One participant who sted became so interested in better collaboration among the clinical quality group, IT clinical search and the division of general medicine at Brigham & Women's Hos

pital that she led the development of a joint Web site to support the exchange of knowledge and resources amoog the groups. According to Cara Ba-

bachicos, Fernandez's supervisor and CIO at Partners nuing Care, Fernandez is "able to see things in a more hig-picture fashion and apply more creativity to the job. For instance, Fernandez

doesn't ask her supervisor for help with project roadblocks as frequently as she used to, Babachicos says. Oo a recent project,

Fernandez "continually ap-proached challenges from different angles," Babachicos adds, working with four to five groups to negotiate issues such as what Web server transactions and user interfaces should look like and

how Web server needs would change. "It involved a lot of different people and follow ups and meetings at many different levels," she says.

Fernandez agrees that she handles projects differently than she once did "We learned to look outside our own tunnel vision to get a higger perspective, and I definitely think about that when I'm presented with

certain situations," she says For instance, when she was working to enhance an application for transferring patients from acute care to the cootinuing care area she works in, Fernandez often found herself relaying ideas from the business users to the developers, only to hear that those ideas couldn't be carried out. \*But instead of taking a 'no' back to the cur tomer, I said, 'What can we

do instead?" " she explain "And it worked." Fernandez says she learned this technique when visiting Monster.com's Inno-



se [[] st s-on way. DANNE TREMBLAY. WASER AND ASSOCIATE DIRECTOR OF APPLICATION DEVELOPMENT, PARTNERS





You feel liberated to try things you've never tried before and see how it works.

MARHANNA EPSTEIN, TEAM LEAGER IN THE WEB APPLICATION DEVELOPMENT GROUP, PARTNERS HEALTH-CARE SYSTEM INC. vation Lab, where employees encourage brainstorming by responding positively, even to ideas they don't agree with. "They wouldn't immediately shoot ideas down," she explains. "Instead of saying," No, I don't agree, they'd say, 'Yes,' and then explain their own point of view."

Marianna Epstein, team leader in Partners' Web application development group, agrees that the program has elevated her thinking. "I try to never think, 'It's impossible,' but rather,

'It's impossible,' but rather,
'What can I do to make it
happen despite all the difficulties?' 'she says.

Epstein applies this
regularly to her job, which

involves advocating for the use of a secure Web portal for patients and doctors. Because it involves changing people's ingrained behavior, it can be a daunting task, she says. But now, "my bead is switting with ideas of what more we can do," such as road shows and e-mail mar-

keting, she says.
Epstein says that before attending the program, she may have discounted the idea of e-mall marketing because of privacy concerns, but now she avoids that kind of self-screening. "Now, I'd consider going to the security department to the security department."

# Works

Here are some of the basic elements of the innovation program at Partners HealthCare Sys

## PARTICIPANTS: 16. divided into four groups

- # METTORS: Each group is assigned a moster (a CRO or a director at Perturn) and a poor moster who has consisted the program.
  - m TASKS: Each group tackles a complex business problem with which the participants have little or no provi-
- a ACTIVITATION (Comparison of Fight "Importune" (Opposed bear ground programs. Tages has pushed the data to the Counter for Medical Manadatas and Manadatas and Sanagal Managalani Appossing Processing Processing Apposing Processing Apposing Processing Processing Apposing Processing Apposing Processing Pro
- II GOAL: Expose small numbers of employees to new experiences and thought patterns, so that when they return to their regular duties, their fresh approaches

### t reports.

isn't perfect. The biggest

and asking them what the regulations are or under what conditions can these e-mails be acquired." she says. "You feel liberated to Of course, the program

# Fastest Growing Middleware

try things you've never tried

Source Cartner "Market Share Application Integration, Middlewers and Portal Software," Worldwide, 2005. Based on 2005 Scense revenue worldwide. complaint from supervisors and participants is the time commitment involved.

"The program can be allencompassing, and we had a huge project going m at the time," says Susan Kananovich, corporate manager of revenue and decisionsupport systems, who super-

vised a program participant. It didn't help, she says, that during the first session, participants were also asked to experiment with working in a virtual office. "We didn't see them for two nr three weeks," Kananovich says." I didn't think it was a good idea" to combine the

two initiatives. Partners made some

changes to the second session to reduce the time commitment. Tremblay says. For instance, the virtual nifice endeavor was separated from the innovation program, and the scheduled speakers were spread out nore consistently over the duration of the program. Participants were also given a month's lead time to plow through reading materials

before the program started. Tremblay also made some administrative changes, such as creating an nnline calendar for teams and supervisors to share and emphasizing that the program should take no more than 25% of a participant's time. "The commitment was greater than 35% at times,"

she says. "At the end, when they were preparing their presentations, it was up to 75% for some people, so we've tried to even that out." The program was tweaked

in other ways as well. For instance, four graduates from the first session served as peer menturs for the secondsession teams, in response to feedback that participants weren't always clear on

what was expected of them. Another missing component was team-building. Tremblay says, so secondsession groups got some bonding time at the Center for Medical Simulation, which offers workshops in a highly realistic clinical environment, through a partnership with the Harvard-MIT Division of Health Sciences.

#### and Technology. "The more you can do to get started nff right, the better," she says. REAL RESULTS So far, two sessions of the

program have graduated 32 participants. Although teams weren't expected in actually resolve the business challenges assigned to them, nne group — which worked on a business plan for

MA-SHARE, a regional clinical data exchange — actually generated usable results, according to Tremblay. "We belped them define their 'elevator speech in' what the system would do at

a particular price point, and they've been working with that model," says Patrick Brown, team lead for Partners' e-contenerce gateway and a program participant. One of the lessons Brown learned through the program was that innovatively solving a problem is not just

about creativity: it's also about framing the business problem correctly and focusing only on the obstacles directly related to the problem you're trying in solve. Brown is interested in promoting innovation further throughout Partners. "It would be great to find

a way in leverage those of us who went through the program to tackle smaller problems in a shorter time frame and just keep the innovation juices flowing. he says. "We have the ability to

says. "We have the ability to raise the impact of this program, if the benefits can he applied to the organization as a whole." # Brandel is a Computerworld contributing writer in Newton, Mass. Contact her at marybrandel@werizon.net.

It would be great to find a way to leverage those of us who went through the

PATRICK BROWN, TEAM LEAD FOR E-COMMERCE GATE-WAY, PARTMERS HEALTH-CARE SYSTEM INC.

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# Customer Service Meets Infosec

Being the **security Nazi** is easy. What's hard is treating users like **customers** and recognizing their **legitimate needs.** 



crashing up against my crashing up against my crashing up against my country possible. Some users want to synchronize their data with their Palm Tross. Looked at from the viewpoint of productivity, it's an orbanize to say you. But as the person repossible my staring too far from born, my knoe-jerk reaction is to say 90, 90. no. Our policy is to keep confidential and protected information on the pro-

tected network. The justification for this policy should be clear to anyone who follows the news about data breaches Laptops and other mobile devices have accounted for countless breaches at this point. I want to keep my state agency off the front page. And unlike a retailer, we're dealine with data that is governed by HIPAA. It's my job to protect all of that information and avoid having to report to the feds and face a possible fine

So far, no hreaches, But I am becoming known as the "mobility Nazi." I don't mind the label as much as my inner conflict when security concerns keep me from approving things that will boost productivity. My users might not believe this but I tiles to make

this, but I'd like to make
their lives easier. They
have in hard enough operating within the confines of a
bureaucraic organization.
In fact, I believe than all
departments must have a
customer service orientation, regardless of whether
their customers are external or internal. As the
head of security, I have to
balance our need to protect.

balance our need to protect data with our users' need to work efficiently. After all, if a business can't do its job, security could be beside the polar. The business could go under. True, a state agency isn't going to go bunkrups, but there are still good reasons to be more productive. Im a state employee, but I'm also

M I believe that all departments must have a customer service orientation.

a taxpayer, and I like knowing that the government is trying to be more efficient. As a taxpayer, I want the cost savings that entails and a smnoth, hassle-free experience when I have to get something done.

# smart security

The trick is to do smart security. If data needs to a go mobile, so be it. I will do everything in my power to provide the absolute best security that technology can provide. And that costs taxpayers money. As you would in any business, you have to calculate the return on investment and proceed accordingly. And so, those Treos.

At purchase, we ensured that data transmissions would be encrypted and that e-mails would not be stored on the vendor's network but instead forwarded directly to the phones. Now we need to address

encrypting the data on the phones themselves.

If we're going to change our policy and allow data to leave the protected network, all the chiefs must agree. I told my own boss that while data Trouble Ticket
AT 155UE: Users want to spinc data to handhelds, removing it from the protected network.
ACTION PLANT Find a way to say yes, despite

syncing is an important function of Trees, it would require that the data be encrypted. In addition, the devices would have to be password-protected and treated like miniature PCs, with all the extra security-awareness training that would involve. The chiefs, of course,

The chiefs, of course, were willing to agree to my restrictions if it meant they coaled store important presentations and documents on their mobile phones. So I contacted our service providers to see what types of encryption software are available for the devices. I now have a list of products to review and will have to do that quickly.

I hate rushing into things, but the minute you tell people they can do something, they want to do it now. Security should not be rushed, of course, but my desire to provide good

to provide good customer service helps me reach a good compromise now and

again. It can shove me out of my stubborn security stance, but I always look carefully to see where the fine line is between the two. \*\*

This week's journal is writ-

This week's journal is written by a real security manage, "C.J. Kally," whose name and employer have been disguised for obvious reasons. Contact her at mscjkelly@yahao.com.

# ONE BATTLEFIELD ONE AGENT



# Robert L. Mitchell

# Analytics and the Mortgage Meltdown

O ONE would argue that the mortgage industry lacks state-of-the-art analytics tools. In fact, analytics played a central role in keeping the recent housing boom alive.

within 5 minutes, says | cl analytics at LoanPer-

new products to keep the

boom going. They offered

riskier loans with entice-

ments such as no mor

down, no income verifi-

cation, interest-only pay-

ments and even negative

ignored the risks because

in a rising market, they

prices were growing so

fast that even if the bor-

rower got into trouble.

it would rarely lead to a

couldn't lose "Home

amortization. Lenders

Improved algorithms and increased computing Christopher Cagan, direcpower have allowed lendtor of research and anaers to analyze data faster lytics at First American than ever. So why didn't CoreLogic. But without a live inspection, lenders those programs help didn't know the true value lenders predict the current subprime loan crisis? of an individual property. On the front end, Then, as housing prices sound leaders created

analytics facilitated the boom in nontraditional mortgages by helping lenders create new loans faster — including loans to the subprime market. Unfortunately, the risk models used didn't include factors such as the immuser of flat or newative

home price growth.

And since professional
real estate appraisals can
delay deals, many lenders
used automated valuation
models. These "appraisal
emulation" programs
establish a value based
on many variables, including the asking prices
for similar properties.
Ever-higher asking prices
would serve to validate

ever-higher appraisals.

"You can get approvals

loss," says Mike Boardsell, director of risk mod-II The market was changing faster than the statistical models could keep

el analytics at LoanPerformance. In some cases, lenders relied only on the applicant's credit score to approve the loan. Brokers then sold bundles of such mortgages into the secton ondary market.

The agencies that rated mortgage-backed securities used statistical models based on how traditional mortgage loans performed, so those had to be adjusted, Beardsell says, but "the market was changing faster than the models could keep up."

And since values were increasing at double-digit rates, users of the models assumed that berrowers would have enough equity to refinance when low teaser rates on adjustable-rate mortgages expired.

Those mortgages were

Those mortgages were mixed with others into pools that were "securitized," rated and distributed to investors, who often borrowed money to purchase them. The value was determined by statis-



tical models that assumed a continuing rise in home values. But even if the risk of declining property values had been factored in, the market was so hot that it wouldn't have mattered. "People sald. "We've got to do it, because if we don't, someone else will." says Dennis Santiago, CEO of Dennis Santiago, CEO of the says of the

Institutional Risk Analytics. And once the loans were sold and off the initiators' books, they weren't their problem anymore.

Then the boom ended,

values declined, teaser rates reset, and delinquencies skyrocketed. "It was the perfect storm," says Beardsell. Recently, Casan ran

the automated valuation model against a database of properties backing \$326 hillion in loans made from 2004 to 2006 to predict foreclosures on adjustable-rate mortgages as rates rect. He estimates that in the next

six to seven years, investors will lose \$112 billion of value as 7% of adjustable-rate mortgages, 32% of teaser loans and 12% of subprime loans default. The moral: "Analytics are a tool for the human mind," says Cagan. "They

can't replace judgment." 
Robert L. Michell is a
Computerworld national
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him at robert\_mitchell@



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# dmańabhan

The executive director and head of global human resources at Tata Consultancy Services

Ltd. talks about finding workers in a shrinking talent pool.

How does TCS compete for IT talent? TCS plans to add 32,000 employees in facial 2008. To do that, we have a talent sourcing eco system that branches ac North America, the U.K., China, Singapore, Eastern Europe and Latin America. One way we gain access to new graduates is our Academic Interface Program (AIP), through which we engage in research col-laboration, faculty development programs, student internships. workshops, awards and TCS-

mg, inexperienced - and sive - workers? No. On average, every year, we here about 50% fresh graduates and 50% experienced professionals

What can a worker do to ain a career in today's onvironment? Work will be done where it is done best by the right people, whether that's in India, Eastern Europe, Latin America or China.

The IT industry demands a great deal of mobility, and future IT pro-44 COMPUTERWORLD SEPTEMBER 24, 2007

fessionals should be accustome to and gain experience in working across multiple geographies
Along with a mobile mind set, the ability to adapt and innovate, a willingness to learn, and the ability to collaborate are important attributes.

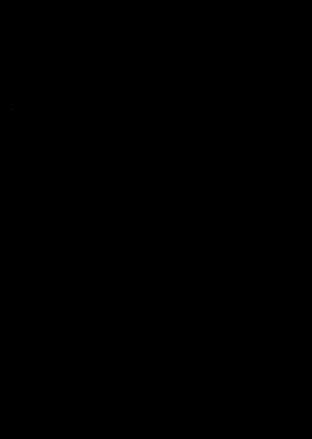
What areas are most fruitful for TCS recruiters? TCS is hir-ing extensively in Brazil, Uniquey, China, the U.S. and Singapore. In our global delivery centers, from China to Chile, less than 5% of our nacrola sea frant larico

Does TCS do anything to

puter science? With the Faculty Development Program, part of AIP. we collaborate with universities on students in engineering colleges in smaller towns in India. We also contribute PCs to needy schools so stadents have exposure to computers at an early age. And TCS employees teach in schools and colleges to share their knowledge in IT. ge m ff. - JAMIE ECKLE

■ Unrealter: Creates virtual tourism, adventure and retail destinations. at: Provides tech-enabled deception services for those issetheir activities.

phageer: Counselor who helps ween people from excessive ology use.



# Career Watch



The executive director and head of global human resources at **Tata Consultancy Services** 

at **Tata Consultancy Services Ltd.** talks about finding workers in a shrinking talent pool.

How deap YES companie for IT talent? TCS piece to and SZ DON Talent? TCS piece to and SZ DON TCS to the second sec

Does TCS exclusively target young, inexperienced - and therefore inexpensive - workers? No. On average, every year, we hire about 50% fresh graduates and 50% experienced professionals.

maintain a coreer in today's environment? Work will be done where it is done best by in gift people, whether that's in India, Eastern Europe, Latin America or China. fessionals should be accustomed to and gan experience in working acress multiple geographies.

Along with a mobile mind-set, the ability to adapt and innovete, a willingness to learn, and the ability to colleboate are important attributes.

What areas are most fruitful for TCS recruiters? TCS is hiring extensively in Bezat, Uruguay, China, the U.S. and Siruppore. In our global dislivery centers, from China to Chile, less than 5% of our

encourage yearing people to take up the study of computer schemo? With the Faculty program part of AP, we collaborate with unversities on custom made ocurse curricula for students in engineering collegus in smaller towers in finiti. We also contribute PCs to needy schools so students have exposure to computers at an early age, Ant TCS encipoyers

teach in schools and colleges to

- JAMIE ECKLE

the following near types of jobs are as the harton for 2009: II E-sembler: Works to undo or minimize the independent that secole accentation on the Web.

Merceller: Creates virtual fouriers, adventure and retail destinations.
 Mesceptionist: Provides tech-enabled deception services for those wishing to decades their activities.

W Generature: Makes corporate and private properties look attractive in Google Earth-style series views.

And some of the newest titles correctly to be found in IT, an reported by Carolyn Bully Marson in Notwork World:

in opportunition observable for how information is handled and stored across a company.

W Service delivery manager: Tales all the components of a

company's technology - networking, survivar, software and storage and delivers them to a business unifor a group of claims as a service.

If Technology - Such assess relationship interages: I below the COU orderstand the business promportion and service sustainess continues to below the open business service by size of up about the capabilities that new selected open and being.

Outsearching relationable messager: Holds outcoming vendors to their agreements and fees problems when they area.
 Middle-application developer: Pulls together all the latest.



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# TRUE TALES OF IT LIFE AS TOLD TO SHARKY

How Things Work.

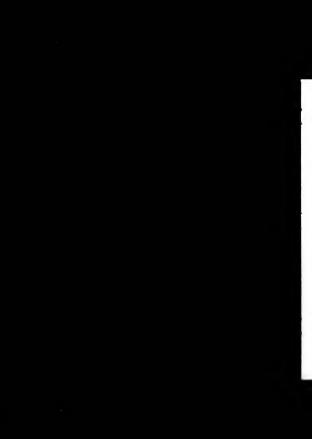
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D'ya Think? This plot fish figures she's explained at least 700 times

Who Reeds R?
A batch of this company's PCs are being decommissioned for sais to employees, and this pilot fish draws the task of wiping the hard drives and

■ Keep the conversation with Sharky going. Send me your true tale of IT life at sharky@ computerworld.com. You'll get a sharp Shark shirt if I use it.

E.N



# SharkTank

How Thinns Work that Tremoved it so I could It's late on an aiready stressful get some paper out of it that Monday when this pilot hish had been stuck. One of these days. I'll get the hang of how gets a high-priority trouble things work around here hoket a laser printer with a red light that won't go off It had a steady paper-sam light," says hsh. "I pulled the paper tray and checked for torn paper bits. Nothing. I opened the printer to remove the toner cartridge, and it took a moment for my mend to register the lack of a toner

the next morning, and I wasn't

disappointed 'Sorry about

IN THIS ISSUE

How to Save At the tail end of a serverroom move the company owner spots a way to save \$10,000 use a box fan m stead of a special cooling unit. "Against my advice, we tried his suggestion for a few cartridge amid the paper dust. weeks," says a pilot hish on The AWOL cartridge was on the job, "Did I mention the a desk behind me. As soon office building we are in turns as I reinstalled it, the printer off the central air conditioning on the weekends? There Sunstarted cranking out pages. I knew as I got in my car what days in a row, we got frantic the user's answer would be calls from him about not be-

ing able to access his Web

mail. Turns out the thermal

really necessary," hish says e-mail and other hies being that, and I was allowed to resume working." took our Internet connection down," reports hish "All users

Who Needs It?

reinstalling original system

software. His boss asks how

long it will take, and the hish

explains o'll be four hours per

machine, because he's doing a seven-pass erase of each hard drive "He asked wheth-

er such a slow process was

"I just looked at him and said

Only if you mind all your

read by your subordinates

The conversation ended after

egupment kicked in and shut the equipment off. Within a month, the server room had a cooling unit installed."

This priot hish houres she's explained at least 700 times to the engineers at her company that a VPN connection uses whatever route is avail able over the Internet But do they get it? "Yoday, coup ment changes being made at our headquarters overseas

were notified of the temporary Internet interruption. Then I received a phone call from one of the engineers. 'Would this Internet problem cause the VPN to not connect?"

A harch of this company's PCs are being decommissioned for sale to employees, and this pilot hish draws the task of wiping the hard drives and

The same provided as a different widow. The part

# **FRANKLY SPEAKING** Frank Haves

# IT's Lock-in Rut

AST WEEK'S biggest news was old news: Microsoft will have to pay a big fine and make changes to Windows because the company illegally tried to lock in European customers, Yes, you remember right: That news did originally come down in 2004. Hey, sometimes it takes a while before we notice.

them because of what

we're good at. We want

to leverage the expertise

we have, whether that's

with development tools,

scripting languages or

product idiosyncrasies

We also like what's

familiar: user interfaces.

patching processes, ven-

dor support procedures.

the habits that make us

whether that means a

specific technology or

vendor, or even a par-

expertise aren't had

lock us in

never steered us wrong.

guides for selecting IT

unless they start to

When a vendor locks

us in, we're prisoners of its prices and features.

We're stuck with what

we're offered, forced to

vendor's product plans.

Trust, familiarity and

And we want what we

But lock-in is nothing new — from vendors or IT people.

lies, but practically all Vendors have always tried to lock us in by using bundling, proprietary technology and secret gramming interfaces That has gotten Microsoft into legal trouble in the U.S. starting more than a decade ago (remember Bill Gates' video deposition in U.S. v. Microsoft?) and in Europe since 1998. It took Europeao authorities six years to

conclude that Microsoft's lock-in tactics were anticompetitive and decide on those sanctions in 2004. And it has taken the years since then to con plete an appeal. That's why three-year-old news is in the headlines now. But for IT people, lockin is even older news. dating back to the days when IBM tried to keep

customers from using any card-sorting machines except its own The biggest vendors ruo into antitrust trouble because they're monopoIT vendors will lock in customers if they can. Their goal: to keep those customer dollars coming in by making it too expensive for the customer to change vendors.

We all know that. If we're smart, we always take the risks of vendor lock-io ioto accouot when we pick products for our IT projects.

But when was the last time you thought about the ways you and your IT staff lock yourselves in? After all, we don't just select products and

technologies based on what the business needs - or what vendors force us ioto. We also choose

When we lock ourselves in, we're captives of our comfort zone. And that can me a rec



selves in, we're captives of our comfort zone. And that cao be more insidious. We may limit what we'll even look at just because it's not like what we've always done. When it comes to business technology, that's a recipe for obsolescence.

Besides, we're not paid to be comfortable So don't be. Watch out for internal lock-in, just as you do for vendor lockin. Keep a sharp ear out for "We can't," "We don't know how," and "What the beck is that?" They're warning signals of an IT shop that's falling into a

comfortable rut. But don't just watch. Learn. Encourage your staff to play with new We don't want to change technology, kick the tires of new products, and experiment with new aptrust, rightly or wrongly, proaches. Recognize them for dabbling, Reward them

for mastery. When they explore, they stay fresh ticular salesmao who has - and you stay flexible. That means you'll be better able to offer IT options to your busin

users — options based on what they need, oot oo what you're uoahle to do And that's a goal worth locking into. ■

Frank Hayes is Computerworld's senior news columnist. Contact him move in lock step with the at frank\_hayes@



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